# **Problem-Solving Investigation: Make an Organized List**

# **EXAMPLE**

## MAIN IDEA

 Solve problems by making an organized list.

**BOTANY** Marcus is planning an experiment to determine the best growing conditions for a certain type of plant. The plants will be kept in high, medium, or low sunlight. They will be given either a large, medium, or small amount of water. How many plants should Marcus buy in order to test each possible combination of growing conditions?

UNDERSTAND	You know there are		different	
	amounts of sunlight	and	different	
		s of water. You need to know the of possible combinations of these conditions.		
PLAN	Make a list of all the different possible combinations. Use HS for high sun, MS for medium sun, LS for low sun, LW for large water, MW for medium water, and SW for small water.			
SOLVE				
	There are diff	erent com	nbinations of	
CHECK	Check the answer by seeing if each condition is accounted for three times in the list of combinations.			

# **HOMEWORK ASSIGNMENT**

Page(s): **Exercises:** 

Check Your Progress GYM BAGS The basketball cheerleaders are ordering new gym bags. They can choose from two styles in either blue or black with white, yellow, or gold lettering. How many different bags are there?

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